

**Revised Appendix To Annex III of the Plan for ongoing
monitoring and verification.**

Items to be notified under the Export / Import Mechanism approved by SCR1051

Provisions related to Biological Items

1. Microorganisms, other organisms, toxins or genetic material, as specified in List 1 (Explanatory Note, see attached).

Microorganisms means bacteria (including mycoplasma, and rickettsiae), viruses, or fungi, whether natural, enhanced or modified, either in the form of isolated live cultures, including live cultures in dormant form or in dried preparations, or as material including living material which has been deliberately inoculated or contaminated with such cultures.

Toxins include purified or crude material.

2.1 (Commodity Designator Code: BA002100)

Facilities, rooms or other enclosures that meet the physical containment criteria for P3 or P4 (BL3, BL4, L3, L4) biological containment as specified in the WHO Laboratory Biosafety Manual (Geneva, 1993).

2.2 (Commodity Designator Code: BA002200)

Biological safety cabinets, which allow manual operations to be performed within, whilst providing an equivalent to Class I, II or III biological protection, as specified in the WHO Laboratory Biosafety Manual (Geneva, 1993) as follows:

Class I cabinet: an open-fronted, ventilated cabinet for personal protection with an unrecirculated inward air flow away from the operator. It is fitted with a HEPA filter to protect the environment from a discharge of microorganisms;

Class II cabinet: an open-fronted, ventilated cabinet for personal, product and environmental protection, which provides an inward air flow and HEPA-filtered supply and exhaust air. There are two main variations: the Class IIA type recirculates 70 per cent of the air; the Class IIB type recirculates 30 percent of the air; and

Class III cabinet: a totally enclosed ventilated cabinet, which is gas-tight and is maintained under negative air pressure. The supply air is HEPA-filtered and the exhaust air is passed through two HEPA filters in series. Work is performed with attached long-sleeved gloves.

Kits to upgrade Class I biosafety cabinets to Class II or III.

Specially designed long sleeved gloves for Class III biosafety cabinet.

2.3 (Commodity Designator Code: BA002300)

Flexible film isolators, glove boxes, anaerobic chambers, dry boxes and secondary containment systems using HEPA air filtration, and having access ports for control, manipulation and decontamination.

2.4 (Commodity Designator Code: BA002400)

HEPA filters of a frame area of 0.0625 m² or greater and which have a DOP rating of 99.997 % (at 0.3 micron) or higher.

2.5 (Commodity Designator Code: BA002500)

Autoclaves designed to sterilize infectious material, with an internal volume equal to 1.0 m³ or greater.

2.6 (Commodity Designator Code: BA002600)

Positive pressure air-fed suits, half suits, helmets and respirators designed for biological use.

3.1 (Commodity Designator Code: BA003100)

Fermenters, bioreactors, chemostats, and continuous flow fermentation systems with a vessel capacity of 50 litres or more and the following specially designed components:

top plates;
vessels;
pH probes; and
pO₂ probes.

3.2 (Commodity Designator Code: BA003200)

Specially designed tissue culture cultivation vessels in which each vessel has an effective growth surface area of 450cm² or greater.

3.3 (Commodity Designator Code: BA003300)

Orbital or reciprocal shakers with a total flask capacity greater than 250 litres, designed for use with biological material.

Shaking incubators with a total flask capacity greater than 250 litres, designed for use with biological material.

4.1 (Commodity Designator Code: BA004100)

Centrifugal separators (or decanters) designed for use with biological material capable of continuous operation at a flow rate of 50 litres per hour or greater and specially designed rotors therefor.

4.2 (Commodity Designator Code: BA004200)

Batch centrifuges with a rotor capacity of 25 litres or greater, designed for use with biological material.

4.3 (Commodity Designator Code: BA004300)

Cross-flow and tangential filtration equipment designed for use with biological material with a filter area equal to or greater than 2m² and component filter cartridges therefor.

4.4 (Commodity Designator Code: BA004400)

Spray drying equipment designed for use with biological material and the following specially designed components:

Spray/atomiser unit;
Cyclones;
Classifiers; and
Electronic control units.

4.5 (Commodity Designator Code: BA004500)

Freeze-drying (lyophilisation) equipment with a condenser capacity greater than 5 kg of ice in 24 hours, and specially designed vacuum chambers therefor.

4.6 (Commodity Designator Code: BA004600)

Size reduction equipment (including milling and grinding equipment) capable of producing powders with a mean particle size of 15 microns or less, and the following specially designed components:

Grinding head;
Milling head;
Milling body;
Grinder; and
Classifier.

5. (Commodity Designator Code: BA005000)

Formulated powdered complex growth media prepackaged in a container size of 5 Kg or greater.

Formulated concentrated liquid complex growth media prepackaged in a container size of 5 litres or greater.

Microbiological grade yeast extract when prepackaged in a container size of 5 Kg or greater.

6.1 (Commodity Designator Code: BA006100)

Immunological assay systems for microorganisms, toxins, or genetic material in List 1, with specially designed reagents.

6.2 (Commodity Designator Code: BA006200)

Gene probe assay systems for micro-organisms, toxins, or genetic material in List 1, with specially designed reagents.

6.3 (Commodity Designator Code: BA006300)

Biological agent detection systems for microorganisms, toxins, or genetic material in List 1, designed for biological defense or civil defense applications.

6.4 (Commodity Designator Code: BA006400)

Nucleic acid sequencing equipment.

6.5 (Commodity Designator Code: BA006500)

Nucleic acid synthesizers.

6.6 (Commodity Designator Code: BA006600)

Electroporation or biolistics equipment.

6.7 (Commodity Designator Code: BA006700)

Thermal cyclers designed for use in molecular biology.

7.1 (Commodity Designator Code: BA007100)

Aircraft sprayers capable of dispersing aerosols with an ultimate mean size of 15 microns or less at a flow rate exceeding 1 litre of liquid suspension per minute or 10 g of dry material per minute, and the following specially designed components:

spray tanks;
certified pumps; and
spray nozzles.

7.2 (Commodity Designator Code: BA007200)

Aerosol disseminators (other than aircraft sprayers and foggers), capable of dispersing aerosols with an ultimate mean size of 15 microns or less at a flow rate exceeding 1 litre of liquid suspension per minute or 10 g of dry material per minute.

Note: This entry excludes dry powder fire extinguishers.

7.3 (Commodity Designator Code: BA007300)

Foggers including pulse jet disseminators capable of dispersing aerosols with an ultimate mean size of 15 microns or less at a flow rate exceeding 1 litre of liquid suspension per minute or 10 g of dry material per minute, and the following specially designed components:

head unit; and
nozzle assembly.

8.1 (Commodity Designator Code: BA008100)

Aerosolization drums, cabinets, chambers, rooms or other enclosures usable in the study of aerosols.

8.2 (Commodity Designator Code: BA008200)

Nose-only aerosolisation equipment but excluding devices for personal prophylaxis or therapy for medical conditions.

8.3 (Commodity Designator Code: BA008300)

Aerodynamic particle-sizing equipment.

9. (Commodity Designator Code: BA009000)

Vaccines to microorganisms or toxins described in List 1 (excluding subcategories 1.4, 1.5, and 1.6) for use with humans and animals except for the following entries:

- Shigella dysenteriae
- Foot and mouth disease virus
- Lyssa virus
- Newcastle disease virus
- Peste des petits ruminants virus
- Rinderpest virus
- Yellow fever virus

Note: Vaccines containing viable microorganisms included in List 1 are notifiable under the List 1 entry.

10. (Commodity Designator Code: BA010000)

Documents, information, software or technology for the design, development, use, storage, manufacture, maintenance or support of entries 1 to 9 above, excluding that in the public domain, published basic scientific research or the minimum necessary for the use of the goods detailed in entries 1 to 9.

NOTE : "Document" means blueprints, plans, diagrams, models, formulae, tables, engineering designs or specifications, manuals or instructions, pertaining to micro-organisms, toxins and genetic material except those containing information generally available to the public.

Explanatory Note**LIST 1 - Microorganisms, Viruses and Toxins Subject to Notification under the Export/Import Monitoring Mechanism****1.1 Microorganisms**

Entry Number	Name	Other Names	Commodity Designator Code
1.1.1	Bacillus anthracis		BA001101
1.1.2	Bacillus cereus		BA001102
1.1.3	Bacillus licheniformis		BA001103
1.1.4	Bacillus megaterium		BA001104
1.1.5	Bacillus pumilis		BA001105
1.1.6	Bacillus subtilis		BA001106
1.1.7	Bacillus thuringensis		BA001107
1.1.8	Bartonella quintana,	Rochalimaea quintana, Rickettsia quintana	BA001108
1.1.9	Brucella abortus		BA001109
1.1.10	Brucella melitensis		BA001110
1.1.11	Brucella suis		BA001111
1.1.12	Burkholderia mallei	Pseudomonas mallei	BA001112
1.1.13	Burkholderia pseudomallei	Pseudomonas pseudomallei	BA001113
1.1.14	Chlamydia psittaci		BA001114
1.1.15	Clostridium botulinum		BA001115
1.1.16	Clostridium perfringens		BA001116
1.1.17	Coxiella burnetii		BA001117
1.1.18	Erwinia amylovora		BA001118
1.1.19	Escherichia coli O157:H7		BA001119
1.1.20	Francisella tularensis		BA001120
1.1.21	Mycoplasma mycoides		BA001121
1.1.22	Ralstonia solanacearum		BA001122
1.1.23	Rickettsia prowazekii		BA001123
1.1.24	Rickettsia rickettsii		BA001124
1.1.25	Salmonella typhi	Salmonella enterica var typhi	BA001125
1.1.26	Serratia marcescens		BA001126
1.1.27	Shigella dysenteriae		BA001127
1.1.28	Staphylococcus aureus		BA001128
1.1.29	Vibrio cholerae		BA001129
1.1.30	Xanthomonas albilineans		BA001130
1.1.31	Xanthomonas campestris pv. citri	Xanthomonas campestris pv. citri types A, B, C, D, E; Xanthomonas citri; Xanthomonas campestris pv. aurantifolia; Xanthomonas campestris pv. Citrumelo	BA001131
1.1.32	Yersinia pestis	Yersinia pseudotuberculosis var pestis	BA001132

1.2 Viruses

Entry Number	Name	Other Names	Commodity Designator Code
1.2.1	African horse sickness virus		BA001201
1.2.2	African swine fever virus		BA001202
1.2.3	Avian influenza virus	Fowl plague virus	BA001203
1.2.4	Blue tongue virus		BA001204
1.2.5	Camel pox		BA001205
1.2.6	Chikungunya virus		BA001206
1.2.7	Congo-Crimean haemorrhagic fever virus		BA001207
1.2.8	Dengue fever virus		BA001208
1.2.9	Eastern equine encephalitis virus		BA001209
1.2.10	Ebola virus		BA001210
1.2.11	Enterovirus 70		BA001211
1.2.12	Foot and mouth disease virus		BA001212
1.2.13	Goat pox virus		BA001213
1.2.14	Hantaan virus		BA001214
1.2.15	Human influenza virus		BA001215
1.2.16	Infectious haemorrhagic conjunctivitis virus		BA001216
1.2.17	Japanese encephalitis virus		BA001217
1.2.18	Junin virus		BA001218
1.2.19	Kyasanus Forest virus		BA001219
1.2.20	Lassa fever virus		BA001220
1.2.21	Louping ill virus		BA001221
1.2.22	Lymphocytic choriomeningitis virus		BA001222
1.2.23	Lyssa virus	Rabies virus	BA001223
1.2.24	Machupo virus		BA001224
1.2.25	Marburg virus		BA001225
1.2.26	Monkey pox virus		BA001226
1.2.27	Murray Valley encephalitis virus		BA001227
1.2.28	Newcastle disease virus		BA001228
1.2.29	Nipah virus		BA001229
1.2.30	Oropouche virus		BA001230
1.2.31	Peste des petits ruminants virus		BA001231
1.2.32	Porcine herpes virus	Aujeszky's disease virus	BA001232
1.2.33	Powarsan virus		BA001233
1.2.34	Rift Valley fever virus		BA001234
1.2.35	Rinderpest virus		BA001235
1.2.36	Rocia virus		BA001236
1.2.37	Rotaviruses		BA001237
1.2.38	Sheep pox virus		BA001238
1.2.39	Sin Nombre virus		BA001239
1.2.40	St. Louis encephalitis virus		BA001240
1.2.41	Sugar cane Fiji disease virus		BA001241
1.2.42	Swine fever virus	Hog cholera virus	BA001242
1.2.43	Swine influenza virus		BA001243
1.2.44	Swine vesicular disease	Porcine enterovirus type 9	BA001244
1.2.45	Teschen disease virus		BA001245
1.2.46	Tick-borne encephalitis virus	Russian Spring-Summer encephalitis virus	BA001246
1.2.47	Variola virus(es)	Smallpox virus	BA001247
1.2.48	Venezuelan equine encephalitis virus		BA001248
1.2.49	Vesicular stomatitis virus		BA001249
1.2.50	Western equine encephalitis virus		BA001250
1.2.51	White pox virus		BA001251
1.2.52	Yellow fever virus		BA001252

1.3 Toxins

Entry Number	Name	Other Names	Commodity Designator Code
1.3.1	Abrin(s)		BA001301
1.3.2	Aflatoxin(s)		BA001302
1.3.3	Botulinum toxin(s)		BA001303
1.3.4	Bungarotoxin(s)		BA001304
1.3.5	Ciguatoxin(s)		BA001305
1.3.6	Clostridium perfringens toxin(s)		BA001306
1.3.7	Conotoxin(s)		BA001307
1.3.8	Microcystin(s)	Yanoginosins; Cyanginosin	BA001308
1.3.9	Modeccin(s)		BA001309
1.3.10	Pseudomonas exotoxin(s)		BA001310
1.3.11	Ricin(s) [CAS No.9009-86-3]	Ricins, Ricine	BA001311
1.3.12	Saxitoxin(s) [CAS No. 35523-89-8]	1H,10H-Pyrrolo[1,2-c]purine-10,10-diol, 2,6-diamino-4-[[[(aminocarbonyl)oxy]methyl]-3a,4,8,9-tetrahydro-,[3aS-(3a.a,4a,10aR*)]-, Saxitoxin hydrate, Mussel poison, Clam poison, Paralytic shellfish poison, Gonyaulax toxin, STX.	BA001312
1.3.13	Shiga toxin(s)		BA001313
1.3.14	Staphylococcus enterotoxin(s)	Staphylococcus aureus enterotoxin Staphylococcus aureus toxin	BA001314
1.3.15	Tetrodotoxin(s)		BA001315
1.3.16	Trichothecene toxin(s)		BA001316
1.3.17	Verotoxin(s)		BA001317
1.3.18	Volkensin(s)		BA001318

1.4 Fungi

Entry Number	Name	Other Names	Commodity Designator Code
1.4.1	Aspergillus flavus		BA001401
1.4.2	Aspergillus nidans		BA001402
1.4.3	Cochliobolus miyabeanus	Helminthosporium oryzae	BA001403
1.4.4	Colletotrichum coffeanum var. virulans		BA001404
1.4.5	Dothistroma pini	Scirrhia pini	BA001405
1.4.6	Fusarium oxysporum		BA001406
1.4.7	Magnaporthe grisea	Pyricularia grisea, Pyricularia oryzae	BA001407
1.4.8	Microcyclus ulei	Dothidella ulei	BA001408
1.4.9	Peronospora hyoscyami de Bary f.sp. tabacina skalicky	Peronospora hyoscyami de Bary f.sp. Adam skalicky	BA001409
1.4.10	Puccinia graminis	Puccinia graminis f. sp. Tritici	BA001410
1.4.11	Puccinia striiformis	Puccinia glumarum	BA001411
1.4.12	Tilletia carnis		BA001412
1.4.13	Tilletia foetida		BA001413
1.4.14	Tilletia indica		BA001414

1.5 Other Organisms

Entry Number	Name	Other Names	Commodity Designator Code
1.5.1	Eukaryotic (non-microbial) organism which produce any listed toxins		BA001501

1.6 Genetically Modified Organisms

Entry Number	Name	Other Names	Commodity Designator Code
1.6.1	Genetically modified microorganisms listed above.		BA001601
1.6.2	Genetically modified microorganisms or genetic material containing nucleic acid sequences derived from any of the listed microorganisms, above or that contain nucleic acid sequences associated with pathogenicity determinants of any listed microorganism; or that contain nucleic acid sequences associated with any listed toxin.		BA001602
1.6.3	Genetically modified variants of eukaryotic (non-microbial) organisms which produce any listed toxin.		BA001603